



98-034CB

April 5, 2004

To: Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Fr: George O. Saile, Reg. No. 19,572
28 Davis Avenue
Poughkeepsie, N.Y. 12603

Subject:

Serial No. 10/791,021 03/02/04

J.W. Chang et al.

A GMR CONFIGURATION WITH ENHANCED
SPIN FILTERING

INFORMATION DISCLOSURE STATEMENT

Enclosed is Form PTO-1449, Information Disclosure Citation
In An Application.

The following Patents and/or Publications are submitted to
comply with the duty of disclosure under CFR 1.97-1.99 and
37 CFR 1.56.

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being
deposited with the United States Postal Service as first class
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P.O. Box 1450, Alexandria, VA 22313-1450, on April 12, 2004.

Stephen B. Ackerman, Reg.# 37761

Signature/Date

 4/12/04

HT-98-034CB

U.S. Patent 5,780,176 to Iwasaki et al., "Magnetoresistance Effect Element," discloses a MR element with an exchange coupling film wherein the exchange coupling film is made of a FM material that improves the lattice matching.

U.S. Patent 5,843,589 to Hoshiya et al., "Magnetic Layered Material, and Magnetic Sensor and Magnetic Storage/Read System Based Thereon," discloses a MR having a Ta buffer layer.

U.S. Patent 5,766,743 to Fujikata et al., "Magnetoresistance Effect Film, a Method of Manufacturing the Same, and Magnetoresistance Effect Device," discloses a MR with an anti-FM layer on a metal oxide (NiO) layer.

U.S. Patent 5,668,688 to Dykes et al., "Current Perpendicular-to-the-Plane Spin Valve Type Magnetoresistive Transducer," discloses a SV with a TA layer under the Free layer.

Sincerely,



Stephen B. Ackerman,
Reg. No. 37761



APR 15 2004

several shots if necessary)

Doc No (Number) (Optional)

HT-98-034CB

Agreement Number

10/791, 021

Lyric

Applicant: Jei-Wei Chang et al.

Final Date

03/02/04

Gravimetric Unit

U. S. PATENT DOCUMENTS

EXAMINER
INITIAL

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER

OTHER DOCUMENTS (Including Author, Title, Date, Portion or Pages, Etc.)

ΟΛΥΜΠΙΑΝ

DATE COMPLETED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered; Include copy of this form with next communication to the applicant.